BOBBY JINDAL GOVERNOR



HAROLD LEGGETT, Ph.D. ,

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY ENVIRONMENTAL SERVICES FEB 1 9 2009

CERTIFIED MAIL#7007_0220_0000_2959_3082 RETURN RECEIPT REQUESTED

FILE NUMBER: LA0039055

AI NUMBER: 86928

ACTIVITY NUMBER: PER20080001

City of Rayne Rayne Wastewater Treatment Plant P.O. Box 69 Rayne, LA 70578

Attention:

Honorable James Petitjean, Mayor,

Subject:

<u>Draft</u> Louisiana Pollutant Discharge Elimination System (LPDES) permit to discharge treated sanitary wastewater into Bayou Blanc, thence into Bayou Plaquemine Brule from a publicly

owned treatment works serving the City of Rayne and outlaying areas.

Dear Mayor Petitjean:

The Department of Environmental Quality proposes to reissue an LPDES permit with the effluent limitations, monitoring requirements, and special conditions listed in the attached DRAFT PERMIT. Please note that this is a DRAFT PERMIT only and as such does not grant any authorization to discharge. Authorization to discharge in accordance with this permitting action will only be granted after all requirements described herein are satisfied and by the subsequent issuance of a FINAL PERMIT. Upon issuance, the LPDES permit shall replace the previously issued LPDES permit.

This Office will publish a public notice one time in the local newspaper of general circulation, and in the Department of Environmental Quality Public Notice Mailing List. A copy of the public notice containing the specific requirements for commenting to this draft permit action will be sent under separate cover at the time the public notice is arranged. In accordance with LAC 33:IX.6521.A, the applicant shall receive and is responsible for paying the invoice(s) from the newspaper(s). LAC 33:IX.6521 states, "...The costs of publication shall be borne by the applicant."

The invoice, fee rating worksheet; and a copy of the fee regulations will be sent under a separate cover letter as applicable. Please note that a copy of the fee rating worksheet is also attached to this draft permit. We must receive your fee payment by check, money order, or draft accompanied by the original and a copy of your invoice. A copy of the entire Louisiana Water Quality Regulations (Volume 14) may be obtained from the LDEQ Office of Environmental Assessment, Post Office Box 4314, Baton Rouge, Louisiana 70821-4314, (225) 219-3236.

Pursuant to LAC 33.IX.1309.I, LAC 33.IX.6509.A.1 and LAC 33.I.1701, you must pay any outstanding fees to the Department. Therefore, you are encouraged to verify your facility's fee status by contacting LDEQ's Office of Management and Finance, Financial Services Division at (225) 219-3863. Failure to pay in the manner and time prescribed could result in applicable enforcement actions as prescribed in the Environmental Quality Act, including, but not limited to revocation or suspension of the applicable permit, and/or assessment of a civil penalty against you.

City of Rayne
Rayne Wastewater Treatment Plant
RE: LA0039055; AI86928; PER20080001
Page Two

A Municipal Water Pollution Prevention Environmental Audit Report Form will be furnished upon finalization of the permit. Please consult Part II, Section B of the permit for instructions regarding this audit.

For sanitary treatment plants, the plans and specifications must be approved by the Department of Health and Hospitals, Office of Public Health, P.O. Box 4489, Baton Rouge, Louisiana 70821-4489, (225) 342-7395.

Should you have any questions concerning any part of the DRAFT PERMIT, public notice requirements, or fees, please contact Ms. Rachel Davis, Office of Environmental Services, Water Permits Division, Municipal and General Water Permits Section at the address on the preceding page or telephone (225) 219-3081. Please reference your Agency Interest Number 86928 and your Louisiana Pollutant Discharge Elimination System Number LA0039055 on all future correspondence to the Department.

Sincerely,

Tom Killeen, Environmental Scientist Manager Municipal and General Water Permits Section

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Attachments (Draft Permit Parts I-III, Statement of Basis, and Fee Sheet)

cc: 10-W

Rachel Davis Water Permits Division

ec: Ms. Gayle Denino

Office of Management & Finance

Permit Compliance Unit
Office of Environmental Compliance

For Public Notice
Public Participation Group
Office of Environmental Assistance

Public Health Chief Engineer Office of Public Health Department of Health and Hospitals

Frederick Trahan Mader Engineering, Inc ftrahan@madereng.com

DRAFT



PERMIT NUMBER: <u>LA0039055</u>
AGENCY INTEREST NO.: <u>86928</u>
ACTIVITY NO.: PER20080001

OFFICE OF ENVIRONMENTAL SERVICES

Water Discharge Permit

Pursuant to the Clean Water Act, as amended (33 U.S.C. 1251 et seq.), and the Louisiana Environmental Quality Act, as amended (La. R. S. 30:2001 et seq.), rules and regulations effective or promulgated under the authority of said Acts, and in reliance on statements and representations heretofore made in the application, a Louisiana Pollutant Discharge Elimination System permit is issued authorizing

City of Rayne

Rayne Wastewater Treatment Plant

P.O. Box 69

Rayne, LA 70578

Type Facility:

publicly owned treatment works serving the City of Rayne and

outlaying areas

Location:

1301 West Jefferson Davis Avenue in Rayne, Acadia Parish

Receiving Waters:

Bayou Blanc, thence into Bayou Plaguemine Brule

(Subsegment 050201)

to discharge in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Parts I, II, and III attached hereto.

This permit shall become effective on

This permit and the authorization to discharge shall expire five (5) years from the effective date of the permit.

Issued on

Cheryl Sonnier Nolan Assistant Secretary DRAFT

GALVEZ BUILDING • 602 N. FIFTH STREET • P.O. BOX 4313 • BATON ROUGE, LA 70821-4313 • PHONE (225) 219-3181

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning the effective date of the permit and lasting through three years after the effective date of the permit the permittee is authorized to discharge from:

Outfall 001, treated sanitary wastewater (design capacity is 1.5 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

Ouch discharges shall t	oe iiriilleu ai	ia monitorea	by the pe	millee as spe	cilled below:		•
Effluent Characteristic	<u>c</u> .	4	Dischar	ge Limitation	<u>s</u>	Monitoring Re	quirements
	•	(lbs/	(lbs/day)		(specify)		
	Storet Code	Monthly Avg.	Weekly Avg.	Monthly Avg.	Weekly Avg.	Measurement Frequency	Sample <u>Type</u>
Flow-MGD CBOD₅ TSS Ammonia-Nitrogen Dissolved Oxygen ²	50050 80082 00530 00610 00300	Report 125.1 187.7 50	Report	 10 mg/l 15 mg/l 4 mg/l	15 mg/l 23 mg/l 8 mg/l	Continuous 2/week 2/week 2/week	Recorder ¹ 6 Hr. Composite 6 Hr. Composite 6 Hr. Composite
March-November December-February Fecal Coliform				5 mg/l 6 mg/l	N/A N/A	2/week 2/week	Grab Grab
colonies/100ml ³ pH (Standard Units) ⁴ TDS	olonies/100ml ³ 74055 (Standard Units) ⁴ 00400			200	400 · 	2/week 2/week 1/quarter	Grab Grab Grab
Effluent Characteristic	<u>es</u>		Limitatio			Monitoring Re	guirements
Heptachlor⁵	Storet Code 39420	(lbs/da Monthl <u>Avg.</u> Report	у	(Ibs/da Daily <u>Max</u> Repor		Measurement <u>Frequency</u> 1/quarter	Sample Type 24Hr. Composite
Whole Effluent Toxici	ty Testing ⁶						
Biomonitoring ⁶	Storet Code	Quality Monthl <u>Minimu</u>	y Avg. 7	% UNLESS S 7-Day <u>Minimum</u>	TATED)	Measurement Frequency	Sample <u>Type</u>
(7 Day NOEC) <u>Ceriodaphnia</u> <u>dubia</u>	22414 TLP3B TOP3B TPP3B TGP3B TQP3B	96% Report Report Report	7 F F 7 F	96% Report Report Report Report		1/quarter 1/quarter 1/quarter 1/quarter 1/quarter	24-Hr Composite 24-Hr Composite 24-Hr Composite 24-Hr Composite 24-Hr Composite
Pimephales promelas		Report Report Report Report Report Report	7 F F 7 F	Report Report Report Report Report Report		1/quarter 1/quarter 1/quarter 1/quarter 1/quarter 1/quarter	24-Hr Composite 24-Hr Composite 24-Hr Composite 24-Hr Composite 24-Hr Composite 24-Hr Composite

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- Includes totalizing meter or totalizer.
- This Dissolved Oxygen limit is the lowest allowable average of daily discharges over a calendar month. When monitoring is conducted, the Dissolved Oxygen shall be analyzed immediately, as per 40 CFR 136.3.
- See Part II, Section A, Paragraph 8
- The pH shall not be less than <u>6.0</u> standard units nor greater than <u>9.0</u> standard units. The permittee shall report on the Discharge Monitoring Reports both the minimum and maximum instantaneous pH values measured.
- If any individual analytical test result is less than the minimum quantification level listed below, a value of zero (0) may be used for that individual result for the Discharge Monitoring Report (DMR) mass calculations and reporting requirements for the pollutants listed below:

Pollutant	 MQL
Heptachlor	0.05 µg/L

- See Part II, Whole Effluent Toxicity Testing Requirements.
- Species Quality Reporting Units: Pass = 0, Fail = 1

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location:

Outfall 001, at the point of discharge from the last treatment unit prior to mixing with other waters.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning three years after the effective date of the permit and lasting through the expiration of the permit the permittee is authorized to discharge from:

Outfall 001, treated sanitary wastewater (design capacity is 1.5 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

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Effluent Characteristi	<u>c</u> .		<u>Discha</u>	arge	<u>Limitation</u>	<u>s</u>	Monitoring Re	quirements
	÷	(lbs/c			other units	(specify)		
	Storet Code	Monthly Avg.	Weekly Avg.	y 	Monthly Avg.	Weekly Avg.	Measurement <u>Frequency</u>	Sample <u>Type</u>
Flow-MGD CBOD₅ TSS Ammonia-Nitrogen Dissolved Oxygen²	50050 80082 00530 00610 00300	Report 125.1 187.7 50	Report	•	10 mg/l 15 mg/l 4 mg/l	 15 mg/l 23 mg/l 8 mg/l	Continuous 2/week 2/week 2/week	Recorder ¹ 6 Hr. Composite 6 Hr. Composite 6 Hr. Composite
March-November December-February Fecal Coliform		· · ·		•	5 mg/l 6 mg/l	N/A N/A	2/week 2/week	Grab Grab
colonies/100ml ³ pH (Standard Units) ⁴ TDS	74055 00400 70296	 3,253	 		200 	400 	2/week 2/week 1/quarter	Grab Grab Grab
Effluent Characteristic	<u>cs</u>		<u>Li</u> mitat	tions	3		Monitoring Re	quirements
Heptachlor⁵	Storet Code 39420	(lbs/da Monthi <u>Avg.</u> 9.13 e	y		(lbs/da Daily <u>Max</u> 2.17 e	•,	Measurement Frequency 1/quarter	Sample Type 24Hr. Composite
Whole Effluent Toxic	ity Testing ⁶	•						
Biomonitoring ⁶	Storet Code	Quality Monthly <u>Minimu</u>	y Avg.	7-C	UNLESS S Day <u>nimum</u>	TATED)	Measurement Frequency	Sample Type
(7 Day NOEC) <u>Ceriodaphnia</u> <u>dubia</u>	22414 TLP3B TOP3B TPP3B TGP3B TQP3B	96% Report Report Report Report Report	1	Re Re Re	% port ⁷ port port ⁷ port		1/quarter 1/quarter 1/quarter 1/quarter 1/quarter 1/quarter	24-Hr Composite 24-Hr Composite 24-Hr Composite 24-Hr Composite 24-Hr Composite 24-Hr Composite
Pimephales promelas TLP6C Rep TOP6C Rep TPP6C Rep TGP6C Rep		Report Report Report Report Report	ort ⁷ ort ort ort ⁷		port ⁷ port port port ⁷ port		1/quarter 1/quarter 1/quarter 1/quarter 1/quarter	24-Hr Composite 24-Hr Composite 24-Hr Composite 24-Hr Composite 24-Hr Composite

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- ³ See Part II, Section A, Paragraph 8
- The pH shall not be less than <u>6.0</u> standard units nor greater than <u>9.0</u> standard units. The permittee shall report on the Discharge Monitoring Reports both the minimum and maximum instantaneous pH values measured.
- If any individual analytical test result is less than the minimum quantification level listed below, a value of zero (0) may be used for that individual result for the Discharge Monitoring Report (DMR) mass calculations and reporting requirements for the pollutants listed below:

Pollutant Heptachlor	MQL
Heptachlor	0.05 μg/L

- See Part II, Whole Effluent Toxicity Testing Requirements.
- Species Quality Reporting Units: Pass = 0, Fail = 1

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location:

Outfall 001, at the point of discharge from the last treatment unit prior to mixing with other waters.

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PART II

OTHER REQUIREMENTS

In addition to the standard conditions required in all permits and listed in Part III, the office has established the following additional requirements in accordance with the Louisiana Water Quality Regulations.

SECTION A. GENERAL STATEMENTS

1. The Louisiana Department of Environmental Quality (LDEQ) reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future to maintain the water quality integrity and the designated uses of the receiving water bodies based upon additional water quality studies and/or TMDL's. The LDEQ also reserves the right to modify or revoke and reissue this permit based upon any changes to established TMDL's for this discharge, or to accommodate for pollutant trading provisions in approved TMDL watersheds as requested by the permittee and/or as necessary to achieve compliance with water quality standards. Therefore, prior to upgrading or expanding this facility, the permittee should contact the Department to determine the status of the work being done to establish future effluent limitations and additional permit conditions.

In accordance with LAC 33:IX.2903., this permit may be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitations issued or approved under sections 301(b)(2)(c) and (D); 304(b)(2); and 307(a)(2) of the Clean Water Act, if the effluent standard or limitations so issued or approved:

- a) Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
- b) Controls any pollutant not limited in the permit; or
- c) Requires reassessment due to change in 303(d) status of waterbody; or
- d) Incorporates the results of any total maximum daily load allocation, which may be approved for the receiving water body.
- 2. This permit does not in any way authorize the permittee to discharge a pollutant not listed or quantified in the application or limited or monitored for in the permit.
- Authorization to discharge pursuant to the conditions of this permit does not relieve the permittee of any liability for damages to state waters or private property. For discharges to private land, this permit does not relieve the permittee from obtaining proper approval from the landowner for appropriate easements and rights of way.
- 4. For definitions of monitoring and sampling terminology see Part III, Section F.
- 5. 24-hour Oral Reporting: Daily Maximum Limitation Violations

Under the provisions of Part III Section D.6.e.(3) of this permit, violations of daily maximum limitations for the following pollutants shall be reported orally to the Office of Environmental Compliance within 24 hours from the time the permittee became aware of the violation followed by a written report in five days.

Pollutants: Heptachlor

In addition, enforcement authority has been retained by EPA. Therefore, EPA must also be notified according to the provisions above until notification that enforcement authority has been assumed by LDEQ. The written report shall be submitted to the following address:

U.S. Environmental Protection Agency, Region 6 Water Enforcement Branch, 6 EN-WC 1445 Ross Ave. Dallas, Texas 75202

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OTHER REQUIREMENTS (cont.)

6. As an exception to Part III Section D.6.e.(1), the permittee shall report all overflows in the collection system with the Discharge Monitoring Report submittal. These reports shall be summarized and reported in tabular format. The summaries shall include: the date, time, duration, location, estimated volume, and cause of the overflow; observed environmental impacts from the overflow; actions taken to address the overflow; and the ultimate discharge location if not contained (e.g., storm sewer system, ditch, tributary). All other overflows and overflows which endanger human health or the environment must be reported in the manner described in Part III, Section D.6 of the permit.

7. Compliance Schedule

In order to allow the permittee time to upgrade the facility to meet limitations imposed by water quality based limits, **INTERIM LIMITS** are proposed for this facility.

The permittee shall achieve compliance with the FINAL EFFLUENT LIMITATIONS and MONITORING REQUIREMENTS as specified in accordance with the following schedule:

ACTIVITY	DATE
Achieve Interim Effluent Limitations and Monitoring Requirements	On the effective date of the permit
Achieve Final Effluent Limitations and Monitoring Requirements	Three years from the effective date of the permit

The above listed activities must be achieved on or before the deadline date. Additionally, the permittee shall submit a progress report outlining the status of all facility improvements on a yearly basis until compliance is achieved.

Within 14 days of completion of the new facility or facility upgrade and/or expansion, the Permittee shall notify the Department of Environmental Quality-Office of Environmental Services in writing that construction has been completed.

The Permittee shall achieve sustained compliance with Final Effluent Limitations.

Where the percent project completion reported is less than would be required to assure completion of necessary upgrades by the required date, the report of progress shall also include an explanation for this delay and proposed remedial actions.

No later than 14 days following a date for a specific action (as opposed to a report of progress), the permittee shall submit a written notice of compliance or noncompliance.

8. Future water quality studies may indicate potential toxicity from the presence of residual chlorine in the treatment facility's effluent. Therefore, the permittee is hereby advised that a future Total Residual Chlorine Limit may be required if chlorine is used as a method of disinfection. In many cases, this becomes a <u>NO MEASURABLE</u> Total Residual Chlorine Limit. If such a limit were imposed, the permittee would be required to provide for dechlorination of the effluent prior to a discharge.

9. DISCHARGE MONITORING REPORTS

Monitoring results must be reported on a Discharge Monitoring Report (DMR) form (EPA No. 3320-1 or an

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OTHER REQUIREMENTS (cont.)

approved substitute). All monitoring reports must be retained for a period of at least three (3) years from the date of the sample measurement. The permittee shall make available to this Department, upon request, copies of all monitoring data required by this permit.

If there is a no discharge event at any of the monitored outfall(s) during the reporting period, enter "No Discharge" in the upper right corner of the Discharge Monitoring Report.

Reporting periods shall end on the last day of the month. Monitoring results for each month shall be summarized on a Discharge Monitoring Report (DMR) Form and submitted to the Office of Environmental Compliance on a monthly basis, postmarked no later than the 15th day of the month following each reporting period.

Permittees shall be required to submit DMRs according to the following schedule or as established in the permit:

For parameter(s) with monitoring frequency(ies) of **1/month or more frequent**: Postmark DMR by the 15th day of the following month.

For parameter(s) with monitoring frequency (ies) of 1/quarter:

 Monitoring Period 	DMR Postmark Date
January 1-March 31	¹ April 15 th
April 1-June 30	July 15 th
July 1- September 30	October 15 th
October 1 – December 31	January 15 th

For parameter(s) with monitoring frequency (ies) of semi-annual:

Monitoring Period	DMR Postmark Date
January 1-June 30	July 15 th
July 1- December 31	January 15 th

For parameter(s) with monitoring frequency(ies) of 1/year:

Monitoring Period	· DMR Postmark Date
January 1- December 31	January 15 th

Duplicate copies of DMRs (one set of originals and one set of copies) signed and certified as required by LAC 33:IX.2503.B, and all other reports (one set of originals) required by this permit shall be submitted to the Permit Compliance Unit at the following address:

Department of Environmental Quality
Office of Environmental Compliance
Enforcement Division
Post Office Box 4312
Baton Rouge, Louisiana 70821-4312
Attention: Permit Compliance Unit

In addition, enforcement authority has been retained by EPA. Therefore, the original and a copy of the DMRs must also be submitted to the following address until notification that enforcement authority has been assumed by LDEQ:

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OTHER REQUIREMENTS (cont.)

U.S. Environmental Protection Agency, Region 6
Water Enforcement Branch, 6 EN-WC
1445 Ross Ave
Dallas, Texas 75202

10. The acceptance of hauled domestic septage is prohibited unless otherwise authorized by this Department. Septage is defined in LAC 33:IX.2313 as the liquid and solid material pumped from a septic tank, cesspool, portable toilet, Type III marine sanitation device, any similar domestic sewage treatment system, or a holding tank when the system is cleaned or maintained that receives only domestic sewage.

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OTHER REQUIREMENTS (cont.)

SECTION B. MUNICIPAL WATER POLLUTION PREVENTION Pollution Prevention Requirements

1. The permittee shall institute or continue programs directed towards pollution prevention. The permittee shall institute or continue programs to improve the operating efficiency and extend the useful life of the facility. The permittee will complete an annual Environmental Audit Report <u>each year</u> for the life of this permit according to the schedule below. A copy of the Environmental Audit Form has been attached to this permit. Please make additional copies to be utilized for each year of this permit. Additional copies can be obtained upon request.

The audit evaluation period is as follows:

Audit Period Begins	Audit Period Ends	Audit Report Completion Date!
Effective Date of Permit	12 Months from Audit Period Beginning Date	3 Months from Audit Period - Ending Date

These reports shall discuss the following items:

- a. The influent loading, flow, and design capacity of the facility;
- b. The effluent quality and plant performance;
- c. The age of the wastewater treatment facility;
- d. Bypasses and overflows of the tributary sewerage system and treatment works:
- e. The ultimate disposition of the sewage sludge:
- f. Landfilling of sewage sludge and potential alternatives (if applicable):
- g. New developments at the facility:
- h. Operator certification and training;
- i. The financial status of the facility; and
- j. A subjective evaluation of conditions at the facility.
- 2. A resolution from the permittee's governing body shall be obtained as part of the Environmental Audit Report. This resolution shall include, at a minimum, the following:
 - a. An acknowledgement that the governing body has reviewed the Environmental Audit Report;
 - b. A description of actions that the permittee will take to maintain compliance with the permit conditions, and if necessary, include a schedule outlining major projects to be accomplished.
- 3. The Environmental Audit Report and the governing body's resolution must be signed by a duly authorized representative of the permittee and shall be maintained with the permit and permit related records (i.e. lab data,

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OTHER REQUIREMENTS (cont.)

DMRs), and made available upon request by duly authorized regional inspectors and/or DEQ Headquarters representatives.

SECTION C. CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

- The following pollutants may not be introduced into the treatment facility:
 - a. Pollutants which create a fire or explosion hazard in the publicly owned treatment works (POTW), including, but not limited to, wastestreams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21;
 - b. Pollutants which will cause corrosive structural damage to the POTW, but in no case discharges with pH lower than 5.0, unless the works are specifically designed to accommodate such discharges;
 - Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW, resulting in Interference;
 - d. Any pollutant, including oxygen demanding pollutants (e.g., BOD5), released in a discharge at a flow rate and/or pollutant concentration which will cause Interference with the POTW;
 - Heat in amounts which will inhibit biological activity in the POTW resulting in Interference but in no case heat in such quantities that the temperature at the POTW treatment plant exceeds 40 degrees Centigrade (104 degrees Fahrenheit) unless the Approval Authority, upon request of the POTW, approves alternate temperature limits;
 - f. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through;
 - g. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems; and
 - h. Any trucked or hauled pollutants, except at discharge points designated by the POTW.
- 2. The permittee shall require any indirect discharger to the treatment works to comply with the reporting requirements of Sections 204(b), 307, and 308 of the Clean Water Act, including any requirements established under LAC 33:IX.Subpart 2.Chapter 61.
- 3. The permittee shall provide adequate notice of the following:
 - Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Sections 301 and 306 of the Clean Water Act if it were directly discharging those pollutants;
 and
 - b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit.
 - c. Any notice shall include information on (1) the quality and quantity of effluent to be introduced into the treatment works, and (2) any anticipated impact of the change on the quality or quantity of effluent to be discharged from the POTW.

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OTHER REQUIREMENTS (cont.)

SECTION D. STORMWATER DISCHARGES

- 1. This section applies to all stormwater discharges from the facility, either through permitted outfalls or through outfalls which are not listed in the permit or as sheet flow.
- 2. Any runoff leaving the developed areas of the facility, other than the permitted outfall(s), exceeding 50 mg/L TOC, 15 mg/L Oil and Grease, or having a pH less than 6.0 or greater than 9.0 standard units shall be a violation of this permit. Any discharge in excess of these limitations, which is attributable to offsite contamination, shall not be considered a violation of this permit. A visual inspection of the facility shall be conducted and a report made annually as described in Paragraph 4 below.
- The permittee shall prepare, implement, and maintain a Storm Water Pollution Prevention Plan (SWP3) within six (6) months of the effective date of the final permit. The terms and conditions of the SWP3 shall be an enforceable Part of the permit. EPA document 833-R-92-002 (Storm Water Management for Industrial Activities) may be used as a guidance and may be obtained by writing to the U.S. Environmental Protection Agency, Office of Water Resources (RC-4100), 401 M Street, S.W., Washington D.C. 20460 or by calling (202) 260-7786.
- 4. The following conditions are applicable to all facilities and shall be included in the SWP3 for the facility.
 - a. The permittee shall conduct an annual inspection of the facility site to identify areas contributing to the storm water discharge from developed areas of the facility and evaluate whether measures to reduce pollutant loadings identified in the SWP3 are adequate and have been properly implemented in accordance with the terms of the permit or whether additional control measures are needed.
 - b. The permittee shall develop a site map that includes all areas where stormwater may contact potential pollutants or substances that can cause pollution. Any location where reportable quantities leaks or spills have previously occurred are to be documented in the SWP3. The SWP3 shall contain a description of the potential pollutant sources, including, the type and quantity of material present and what action has been taken to assure stormwater precipitation will not directly contact the substances and result in contaminated runoff.
 - c. Where experience indicates a reasonable potential for equipment failure (e.g. a tank overflow or leakage), natural condition of (e.g. precipitation), or other circumstances which result in significant amounts of pollutants reaching surface waters, the SWP3 should include a prediction of the direction, rate of flow and total quantity of pollutants which could be discharged from the facility as a result of each condition or circumstance.
 - d. The permittee shall maintain for a period of three years a record summarizing the results of the inspection and a certification that the facility is in compliance with the SWP3 and the permit, and identifying any incidents of noncompliance. The summary report should contain, at a minimum, the date and time of inspection, name of inspector(s), conditions found, and changes to be made to the SWP3.
 - e. The summary report and the following certification shall be signed in accordance with LAC 33:IX.2503. The summary report is to be attached to the SWP3 and provided to the Department upon request.
 - "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is,

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to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signatory requirements for the certification may be found in Part III, Section D.10 of this permit.

- f. The permittee shall make available to the Department, upon request, a copy of the SWP3 and any supporting documentation.
- 5. The following shall be included in the SWP3, if applicable.
 - a. The permittee shall utilize all reasonable methods to minimize any adverse impact on the drainage system including but not limited to:
 - maintaining adequate roads and driveway surfaces;
 - ii. removing debris and accumulated solids from the drainage system; and
 - iii. cleaning up immediately any spill by sweeping, absorbent pads, or other appropriate methods.
 - b. All spilled product and other spilled wastes shall be immediately cleaned up and disposed of according to all applicable regulations, Spill Prevention and Control (SPC) plans or Spill Prevention Control and Countermeasures (SPCC) plans. Use of detergents, emulsifiers, or dispersants to clean up spilled product is prohibited except where necessary to comply with State or Federal safety regulations (i.e., requirement for non-slippery work surface). In all such cases, initial cleanup shall be done by physical removal and chemical usage shall be minimized.
 - c. All equipment, parts, dumpsters, trash bins, petroleum products, chemical solvents, detergents, or other materials exposed to stormwater shall be maintained in a manner which prevents contamination of stormwater by pollutants.
 - d. All waste fuel, lubricants, coolants, solvents, or other fluids used in the repair or maintenance of vehicles or equipment shall be recycled or contained for proper disposal. Spills of these materials are to be cleaned up by dry means whenever possible.
 - e. All storage tank installations (with a capacity greater than 660 gallons for an individual container, or 1,320 gallons for two or more containers in aggregate within a common storage area) shall be constructed so that a secondary means of containment is provided for the entire contents of the largest tank plus sufficient freeboard to allow for precipitation. Diked areas should be sufficiently impervious to contain spills.
 - f. All diked areas surrounding storage tanks or stormwater collection basins shall be free of residual oil or other contaminants so as to prevent the accidental discharge of these materials in the event of flooding, dike failure, or improper draining of the diked area. All drains from diked areas shall be equipped with valves that shall be kept in the closed condition except during periods of supervised discharge.
 - g. All check valves, tanks, drains, or other potential sources of pollutant releases shall be inspected and maintained on a regular basis to assure their proper operation and to prevent the discharge of pollutants.
 - h. The permittee shall assure compliance with all applicable regulations promulgated under the Louisiana Solid Waste and Resource Recovery Law and the Hazardous Waste Management Law (L.R.S. 30:2151) etc.). Management practices required under above regulations shall be referenced in the SWP3.

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- i. The permittee shall amend the SWP3 whenever there is a change in the facility or change in the operation of the facility that materially increases the potential for the ancillary activities to result in a discharge of significant amounts of pollutants.
- j. If the SWP3 proves to be ineffective in achieving the general objectives of preventing the release of significant amounts of pollutants to water of the state, then the specific objectives and requirements of the SWP3 shall be subject to modification to incorporate revised SWP3 requirements.
- 6. Facility Specific SWP3 Conditions:
 - a. Site Map. The locations of the following areas, where such areas are exposed to precipitation, shall also be included on the site map: grit, screenings and other solids handling, storage or disposal areas; sludge drying beds; dried sludge piles; compost piles; septage and/or hauled waste receiving station; and storage areas for process chemicals, petroleum products, solvents, fertilizers, herbicides and pesticides.
 - b. **Employee Training.** At a minimum, must address the following areas when applicable to a facility: petroleum product management; process chemical management; spill prevention and controls; fueling procedures; general good housekeeping practices; proper procedures for using fertilizer, herbicides and pesticides.
 - c. Potential Pollutant Sources. The summary of potential pollutant sources must also list the activities and pollutants from the following areas: grit, screenings and other solids handling, storage or disposal areas; sludge drying beds; dried sludge piles; compost piles; septage and/or hauled waste receiving station; and access roads/rail lines.
 - d. Description of BMPs to be Used. In addition to the other BMPs considered, the facility must consider routing storm water into treatment works, or covering exposed materials from the following exposed areas: grit, screenings and other solids handling, storage or disposal areas; sludge drying beds; dried sludge piles; compost piles; septage and/or hauled waste receiving station.
 - e. **Inspections:** The following areas must be included in all monthly inspections: access roads/rail lines; grit; screenings and other solids handling, storage or disposal areas; sludge drying beds, dried sludge piles; compost piles; septage and/or hauled waste receiving station areas.
 - f. Wastewater and Washwater Requirements. If washwaters are handled in another manner other than the treatment works, the disposal method must be described and all pertinent documentation must be attached to the plan.

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SECTION E. WHOLE EFFLUENT TOXICITY TESTING LIMIT (7-DAY CHRONIC NOEC: FRESHWATER)

1. SCOPE AND METHODOLOGY

It is unlawful and a violation of this permit for a permittee or the designated agent, to manipulate test samples in any manner, to delay sample shipment, or to terminate or to cause to terminate a toxicity test. Once initiated, all toxicity tests must be completed unless specific authority has been granted by the Louisiana Department of Environmental Quality.

a. The permittee shall test the effluent for toxicity in accordance with the provisions in this section.

APPLICABLE TO FINAL OUTFALL(S):

001

REPORTED ON DMR AS OUTFALL:

TX1

CRITICAL DILUTION (%):

96%

EFFLUENT DILUTION SERIES (%):

30%, 40%, 54%, 72%, and 96%

SAMPLE TYPE:

24-Hour Composite

TEST SPECIES/METHODS:

40 CFR Part 136

Ceriodaphnia dubia chronic static renewal survival and reproduction test, Method 1002.0, EPA-821-R-02-013, or the most recent update thereof. This test should be terminated when 60% of the surviving females in the control produce three broods or at the end of eight days, whichever comes first.

<u>Pimephales promelas</u> (Fathead minnow) chronic static renewal 7-day larval survival and growth test, Method 1000.0, EPA-821-R-02-013, or the most recent update thereof. A minimum of five (5) replicates with ten (10) organisms per replicate must be used in the control and in each effluent dilution of this test.

- b. The <u>Lethal NOEC</u> (No Observed Effect Concentration) is defined as the greatest effluent dilution at and below which lethality that is statistically different from the control (0% effluent) at the 95% confidence level does not occur. The <u>Sub-lethal NOEC</u> is defined as the greatest effluent dilution at and below which sub-lethality that is statistically different from the control (0% effluent) at the 95% confidence level does not occur.
- c. Lethal test failure is defined as a demonstration of a statistically significant lethal effect at test completion to a test species at or below the critical dilution. Sub-lethal test failure is defined as a demonstration of a statistically significant sub-lethal effect (i.e., growth or reproduction) at test completion to a test species at or below the critical dilution.
- d. When the testing frequency/Monitoring Period is quarterly and the effluent fails the lethal and/or sublethal endpoint at or below the critical dilution, the permittee shall be considered in violation of the Whole
 Effluent Toxicity Limit as stated in Part I and the frequency/Monitoring Period for the affected species will
 increase to monthly until such time compliance with the Lethal and Sub-lethal No Observed Effluent
 Concentration (NOEC) effluent limitation is demonstrated for a period of three consecutive months, at
 which time the monitoring frequency/Monitoring Period shall revert to quarterly.

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e. This permit may be reopened to require chemical specific effluent limits, additional testing, and/or other appropriate actions to address toxicity.

2. REQUIRED TOXICITY TESTING CONDITIONS

a. Test Acceptance

The permittee shall repeat a test, including the control and all effluent dilutions, if the procedures and quality assurance requirements defined in the test methods or in this permit are not satisfied, including the following additional criteria:

- i. The toxicity test control (0% effluent) must have survival equal to or greater than 80%.
- ii. The mean number of <u>Ceriodaphnia dubia</u> neonates produced per surviving female in the control (0% effluent) must be 15 or more.
- iii. 60% of the surviving control females must produce three broads.
- iv. The mean dry weight of surviving Fathead minnow larvae at the end of the 7 days in the control (0% effluent) must be 0.25 mg per larva or greater.
- v. The percent coefficient of variation between replicates shall be 40% or less in the control (0% effluent) for: the young of surviving females in the <u>Ceriodaphnia dubia</u> reproduction test, the growth and survival of the Fathead minnow test.
- vi. The percent coefficient of variation between replicates shall be 40% or less in the critical dilution, unless significant lethal or nonlethal effects are exhibited for: the young of surviving females in the Ceriodaphnia dubia reproduction test; the growth and survival endpoints in the Fathead minnow test.

Test failure may not be construed or reported as invalid due to a coefficient of variation value of greater than 40%. A repeat test shall be conducted within the required reporting period of any test determined to be invalid.

b. Statistical Interpretation

- For the <u>Ceriodaphnia dubia</u> survival test, the statistical analyses used to determine if there is a significant difference between the control and the critical dilution shall be Fisher's Exact Test as described in EPA-821-R-02-013, or the most recent update thereof.
 - If the conditions of Test Acceptability are met in Item 2.a above and the percent survival of the test organism is equal to or greater than 80% in the critical dilution concentration and all lower dilution concentrations, the test shall be considered to be a passing test, and the permittee shall report a Lethal NOEC of not less than the critical dilution for the DMR reporting requirements found in Item 3 below.
- ii. For the <u>Ceriodaphnia dubia</u> reproduction test and the Fathead minnow larval survival and growth test, the statistical analyses used to determine if there is a significant difference between the control and the critical dilution shall be in accordance with the methods for determining the No Observed Effect Concentration (NOEC) as described in EPA-821-R-02-013, or the most recent

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update thereof.

c. <u>Dilution Water</u>

- Dilution water used in the toxicity tests will be receiving water collected as close to the point of discharge as possible but unaffected by the discharge. The permittee shall substitute synthetic dilution water of similar pH, hardness, and alkalinity to the closest downstream perennial water where the receiving stream is classified as intermittent or where the receiving stream has no flow due to zero flow conditions.
- ii. If the receiving water is unsatisfactory as a result of instream toxicity (fails to fulfill the test acceptance criteria of Item 2.a), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:
 - A. a synthetic dilution water control which fulfills the test acceptance requirements of Item 2.a was run concurrently with the receiving water control;
 - B. the test indicating receiving water toxicity has been carried out to completion (i.e., 7 days);
 - C. the permittee includes all test results indicating receiving water toxicity with the full report and information required by Item 3.a below; and
 - D. the synthetic dilution water shall have a pH, hardness, and alkalinity similar to that of the receiving water or closest downstream perennial water not adversely affected by the discharge, provided the magnitude of these parameters will not cause toxicity in the synthetic dilution water.

d. Samples and Composites

- i. The permittee shall collect a minimum of three flow-weighted 24-hour composite samples from the outfall(s) listed at item 1.a above. A 24-hour composite sample consists of a minimum of 4 effluent portions collected at equal time intervals representative of a 24-hour operating day and combined proportional to flow or a sample continuously collected proportional to flow over a 24-hour operating day.
- ii. The permittee shall collect second and third 24-hour composite samples for use during 24-hour renewals of each dilution concentration for each test. The permittee must collect the 24-hour composite samples such that the effluent samples are representative of any periodic episode of chlorination, biocide usage or other potentially toxic substance discharged on an intermittent basis.
- The permittee must collect the 24-hour composite samples so that the maximum holding time for any effluent sample shall not exceed 72 hours. The permittee must have initiated the toxicity test within 36 hours after the collection of the last portion of the first 24-hour composite sample. Samples shall be chilled to 0-6 degrees Centigrade during collection, shipping and/or storage.
- iv. If the flow from the outfall(s) being tested ceases during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions and the sample holding time are waived during that sampling period. However, the permittee must collect an effluent composite sample volume during the period of discharge that is

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sufficient to complete the required toxicity tests with daily renewal of effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days if the discharge occurs over multiple days. The effluent composite sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report required in Item 3 of this section.

3. REPORTING

a. A valid test must be completed and test results must be submitted for each species during each Monitoring Period. The permittee shall prepare a full report of the results of all tests conducted pursuant to this section in accordance with the Report Preparation Section of EPA-821-R-02-013, or the most current publication, for every valid or invalid toxicity test initiated whether carried to completion or not. The permittee shall retain each full report pursuant to the provisions of Part III.C of this permit. For any test which fails, is considered invalid, or which is terminated early for any reason, the full report must be submitted for agency review. The permittee shall submit the first full report to:

Department of Environmental Quality
Office of Environmental Compliance
P. O. Box 4312
Baton Rouge, Louisiana 70821-4312
Attn: Permit Compliance Unit

In addition, if enforcement authority has been retained by EPA, a copy of the report must also be submitted to the following address:

U.S. Environmental Protection Agency, Region 6 Water Enforcement Branch, 6 EN-WC 1445 Ross Ave. Dallas, Texas 75202

b. The permittee shall report the <u>lowest</u> 7-Day Minimum NOEC and the <u>lowest</u> 30-Day Average Minimum NOEC for Lethality or Sub-lethality (<u>whichever is lower</u>) under Parameter No. 22414 (Whole Effluent Toxicity) on the DMR for the Monitoring Period in accordance with Part III.D of this permit.

If more than one valid test for a species was performed during the Monitoring Period, the test NOECs will be averaged arithmetically and reported as the DAILY AVERAGE MINIMUM NOEC for that Monitoring Period.

If more than one species is tested during the Monitoring Period, the permittee shall report the <u>lowest</u> 7-Day Minimum NOEC and the <u>lowest</u> 30-Day Average Minimum NOEC for Lethality or Sub-lethality (<u>whichever is lower</u>) under Parameter No. 22414 on the DMR for that Monitoring Period in accordance with Part III.D of this permit.

All invalid and repeat tests (for invalid tests) performed during the Monitoring Period must be attached to the DMR for LDEO review.

c. The permittee shall submit the results of each valid toxicity test on the DMR for that Monitoring Period in accordance with Part III.D.4 and the DMR Monitoring Period schedule contained in Part II of this permit. Only results of valid tests are to be reported on the DMR. The permittee shall submit the Table 1 Summary Sheet with each valid test.

Pimephales promelas (Fathead Minnow)

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- A. If the No Observed Effect Concentration (NOEC) for survival is less than the critical dilution, enter a "1", otherwise, enter a "0" for Parameter No. TLP6C.
- B. Report the NOEC value for survival, Parameter No. TOP6C.
- C. Report the NOEC value for growth, Parameter No. TPP6C.
- D. If the No Observed Effect Concentration (NOEC) for growth is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TGP6C.
- E. Report the highest (critical dilution or control) Coefficient of Variation, Parameter No. TQP6C.

ii. <u>Ceriodaphnia dubia</u>

- A. If the NOEC for survival is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TLP3B.
- B. Report the NOEC value for survival, Parameter No. TOP3B.
- C. Report the NOEC value for reproduction, Parameter No. TPP3B.
- D. If the No Observed Effect Concentration (NOEC) for reproduction is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TGP3B.
- E. Report the highest (critical dilution or control) Coefficient of Variation, Parameter No. TQP3B.

The permittee shall submit the toxicity testing information contained in Table 1 of this permit with the DMR subsequent to each and every toxicity test Monitoring Period. The DMR and the summary table should be sent to the address indicated in 3.a.

TABLE 1 SUMMARY SHEET Ceriodaphnia dubia SURVIVAL AND REPRODUCTION TEST

PERMITTEE:							•			
FACILITY SITE:				_LPDES P	ERMIT NUI	MBER:				
OUTFALL IDENTIFICATION:				·•			· · · · · · · · · · · · · · · · · · ·			
OUTFALL SAMPLE IS FROM		-	SINGI	_E			MULTIPLE			
							•			
BIOMONITORING LABORATORY	·		DECE	11./INIC 18/8T						
DILUTION WATER USED:LAB WATER			KEUE	I ÀM DUINE	EK					
CRITICAL DILUTION			% DA	TE TEST IN	IITIATEN	•				
	<u> </u>			ic icoi iii						
1. LOW-FLOW LETHALITY:					•		٠			
Is the mean survival at 7 daysYesNo	significantly	/ less (p=0.05) than the co	ontrol surviv	al at the lov	v-flow or critic	al dilution?			
	PER	CENT SURV	IVAL - <u>Ceri</u>	odaphnia						
TIME OF		PER	CENT	EFFLU	ENT		1			
READING										
	0 %	30%	40%	54%	72%	96%				
24 HOUR						1	1			
48-HOUR							4			
a contract who had			,			·	_			
7-DAY]			
2. LOW-FLOW SUB-LETHALITY Is the mean number of young young per female for the low-fl	produced p	per female at al dilution?	7 days sign _Yes	ificantly les	s (p=0.05) t	han the conti	rol's number of			
NUMBER OF	YOUNG P	RODUCED P				aphnia	¬1			
REPLICATE		PER	CENT	EFFLU	ENT					
	0 %	30%	40%	54%	72%	96%]			
A B C D E)					ī			

Mean No. of young

^{*} Coefficient of variation = Standard Deviation * 100/mean

3.	Are the test results to be considered valid' Yes No	?		,					
	If X no (test invalid) , what reasons for in	valid	dity?						
4.	Is this a retest of a previous invalid test?						,		
	YesNo								
	Is this a retest of a previous test failure?								
	YesNo			•					•
5.	Enter percent effluent corresponding Ceriodaphnia:	to	each	NOEC	(No	Observed	Effect	Concentration)	for
	a NOEC SURVIVAL		=				effluent		
	b. NOEC REPRODUCTION		=			. %	effluent		

TABLE 1 SUMMARY SHEET Pimephales promelas ("fathead minnow") SURVIVAL AND GROWTH TEST

PERMI			- · · · · · · · · · · · · · · · · · · ·											
	TY SITE:									LPD	ES PERM	IIT NUM	BER:	
OUTFA	LL IDENTIFICATI	ON:	· <u> </u>											
DISCH	LL SAMPLE IS FI	₹ОМ			• \	_SING	LE					M(JLTIPI	LE
	NITORING LABO	RATORY	<i>i</i> .											-
DILUTI	ON WATER USE);					RE	CEIV	ING WA	ATER	<u> </u>			
CRITIC	ON WATER USEI AL DILUTION					% DA	TE TE	ST II	NITIATE	ΞD			_	
	W-FLOW LETHAL							-						
	he mean survival a	at 7 days	signific	antly le	ss (p=0.	.05) th	nan the	cont	trol surv	ival a	it the low-	flow or c	ritical	dilution?_
Yes	sNo											•		
		J								PER	CENT SU	RVIVAL	<u>Pin</u>	nephales
	PERCENT EFFLUENT		% SUF	RVIVAL	/ REPL	ICATE	S		1 . ***		I % SUR\			CVa %
		A		В	C		D				48-HR		∵	
•					11.								453 S	
	0%	·												200.07
	30 %													
	40 %			<u> </u>								<u> </u>	-	_
•	54 %													
	72 %						·			╁				
	96 %													
2. LO\	N-FLOW SUB-LE	THALIT	/ :								,	•	•	 -
ls ti	he mean đry weig	ht (growt	h) at 7	days sig	Inificant	tiy less	s (p=0.	.05) t	han the	cont	roľs dry v	veight (g	rowth) for the lov
, flow	or critical dilution	ı? <u> </u>	·······	Yes į				·			•	0 .0		,
DATA	ABLE FOR GRO													
		AVE							IN 🤱		MEAN DI	3		
	EFFLUENT			EPLIC/	TE CH	AMBE	ERS				WEIGH		CV%	0 - 113
	·	, , , , , , , , , , , , , , , , , , ,	1 <u>.</u>				T I)	1971 (1984) A. 2000 (1992) (1994)	V. 10 340		10 your
		- A	В	14	C	D			E	10 d 113				
	0%													
	30 %					,	- 				-			
	40 %									<u> </u>				
	54 %							<u> </u>				<u> </u>		
	72 %			j										
	96 %						 †							-
* Coeffi	cient of variation -	- standar	d devia	tion x 10	00/meau	n	<u></u>			ь			<u> </u>	

3.	Are the test results to be considered valid?
	YesNo If _X_no (test invalid) , what reasons for invalidity?
4.	Is this a retest of a previous invalid test? Yes No
	Is this a retest of a previous test failure? YesNo
5.	Enter percent effluent corresponding to each NOEC (No Observed Effect Concentration) for <u>Pimephales</u> :
	a. NOEC SURVIVAL =% effluent
	b. NOEC GROWTH =% effluent

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